

## Message Text

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ACTION NEA-13

INFO OCT-01 ISO-00 AID-20 CIAE-00 COME-00 EB-11 FRB-02

INR-10 NSAE-00 RSC-01 TRSE-00 XMB-07 OPIC-12 SPC-03

CIEP-02 LAB-06 SIL-01 OMB-01 INT-08 SCI-06 FEA-02

DODE-00 PM-07 H-03 L-03 NSC-10 PA-04 PRS-01 SS-20

USIA-15 DRC-01 HEW-08 COA-02 AGR-20 IGA-02 NSF-04

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R 291545Z JAN 74

FM AMEMBASSY NEW DELHI

TO SECSTATE WASHDC 9351

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E.O.11652: N/A

TAGS: ECON, EGEN, EFIN, TGEN, IN

SUBJECT: SUMMARY AND ANALYSIS DRAFT FIFTH FIVE YEAR PLAN:  
SCIENCE AND TECHNOLOGY

REFS: (A) NEW DELHI 15082; (B) NEW DELHI 0267;  
(C) TOAID A-29; (D) NEW DELHI 0779;  
(E) NEW DELHI 1192

1. GOI POLICY IS TARGETED RESEARCH, DEVELOPMENT AND DESIGN  
TO DECREASE POVERTY AND INCREASE NATIONAL SELF-RELIANCE.

2. FREEDOM FROM FOREIGN DEPENDENCE IN AGRICULTURE, ENERGY,  
MINING, METALLURGY, HEAVY ENGINEERING AND CHEMICALS IS  
EMPHASIZED.

3. DEFENSE RESEARCH IS NOT MENTIONED.

4. INCREASED CENTRAL CONTROL IS PLANNED.

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5. NATIONAL PROGRAMS ARE PLANNED IN SOLAR ENERGY, CRYOGENICS, 500 MW THERMAL POWER PLANTS, HUMAN FERTILITY REGULATION, MARINE RESOURCES, FORESTRY, AND SCIENCE EVD TECHNOLOGY INFORMATION.

6. RESEARCH, DESIGN, AND DEVELOPMENT IN PUBLIC AND PRIVATE INDUSTRY, NOW ONLY 10 PERCENT OF THE INDIAN TOTAL, IS PLANNED TO BE INCREASED AND INTEGRATED MORE CLOSELY INTO THE TOTAL NATIONAL EFFORT.

7. THERE ARE PLANNED NATIONAL AND FOUR REGIONAL COORDINATING COUNCILS FOR EDUCATION, INDUSTRY, AND RESEARCH.

8. THE DEPARTMENT OF SCIENCE AND TECHNOLOGY (DOST) IS PLANNED AS BEEFED UP CONSIDERABLY, AND TO MONITOR, COORDINATE, AND EVALUATE (A) INTERMINISTERIAL AND (B) SELECTED SINGLE-INSTITUTION PROGRAMS (HERE DOST SECRETARY RAMACHANDRAN TOLD SCIATT HE WILL TREAD LIGHTLY) FOR THE PLANNING COMMISSION AND THE NATIONAL COMMITTEE ON SCIENCE AND TECHNOLOGY. DOST HAS THE NODAL RESPONSIBILITY FOR IMPLEMENTING OVERALL SCIENCE AND TECHNOLOGY POLICY AND PROMOTING INTERNATIONAL COOPERATION. IT PROVIDES GRANTS TO CERTAIN RESEARCH INSTITUTES AND SOCIETIES. IT WILL FUND THE SURVEY OF INDIA, THE BOTANICAL SURVEY, THE ZOOLOGICAL SURVEY, THE NATIONAL ATLAS ORGANIZATION, THE NATIONAL REMOTE SENSING AGENCY, THE OCEAN SCIENCE AND TECHNOLOGY AGENCY, THE NATIONAL RESEARCH AND DEVELOPMENT ORGANIZATION, THE INTERNATIONAL TECHNOLOGY TRANSFER CENTRE, THE INSTRUMENT DEVELOPMENT CORPORATION, THE MACHINERY AND EQUIPMENT DEVELOPMENT CORPORATION, THE DEVELOPMENT OF NEW REINFORCING FIBRES AND COMPONENTS, REGIONAL SOPHISTICATED INSTRUMENT CENTRES, SCIENCE AND ENGINEERING RESEARCH COUNCIL, ELECTRONIC COMPONENT UNIT, CRYOGENICS CORPORATION, NATIONAL INFORMATION SYSTEM, MUSEUM OF NATURAL HISTORY, MONITORING AND EVALUATION ORGANIZATION, TECHNOLOGIES RELATING TO NEW ENERGY SOURCES, AND THE NATIONAL COMMITTEE ON ENVIRONMENTAL PLANNING AND COORDINATION.

10. THE DEPARTMENT OF SPACE R&D EXPENDITURES, PLAN AND NON-PLAN ARE GIVEN AS RS.1,725 MILLION OF WHICH ABOUT THREE QUARTERS SEEMS TO BE FOR ROCKET LAUNCHING FACILITIES, ONE-TENTH FOR LIMITED OFFICIAL USE

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APPLICATIONS, AND THE REST FOR SATELLITES AND OTHER SCIENCE.

11. TOTAL EXPENDITURE, PLAN AND NON-PLAN ON SCIENCE AND TECHNOLOGY DURING THE FIFTH PLAN IN MILLIONS OF RUPEES:

|                      |        |       |
|----------------------|--------|-------|
| TOTAL                | 15,682 |       |
| FOOD AND AGRICULTURE |        | 1,820 |
| IRRIGATION           | 380    |       |

|                           |       |  |
|---------------------------|-------|--|
| POWER                     | 150   |  |
| HEAVY INDUSTRIES          | 700   |  |
| STEEL                     | 200   |  |
| MINES                     | 690   |  |
| INDUSTRIAL DEVELOPMENT    | 250   |  |
| PETROLEUM                 | 160   |  |
| CHEMICALS                 | 150   |  |
| ELECTRONICS               | 200   |  |
| COMMERCE                  | 50    |  |
| SHIPPING                  | 100   |  |
| TRANSPORT                 | 90    |  |
| ATOMIC ENERGY RDD         | 2,364 |  |
| SCIENCE AND TECHNOLOGY    | 1,850 |  |
| COUNCIL OF SCIENTIFIC AND | 2,548 |  |
| INDUSTRIAL RESEARCH       |       |  |
| SPACE                     | 1,725 |  |
| SUPPLY (NATIONAL TEST     |       |  |
| HOUSE)                    | 50    |  |
| HEALTH                    | 217   |  |
| FAMILY PLANNING           | 143   |  |
| WORKS AND HOUSING         | 238   |  |
| EDUCATION & SOCIAL WELF-  |       |  |
| FARE - UGC & ITT'S        | 540   |  |
| ANTHROPOLOGICAL SURVEY OF |       |  |
| INDIA                     | 32    |  |
| COMMUNICATION             | 323   |  |
| RAILWAYS                  | 400   |  |
| METEOROLOGY               | 300   |  |
| CIVIL AVIATION            | 8     |  |
| INFORMATION & BROAD-      |       |  |
| CASTING                   | 5     |  |

12. COMMENT: ALTHOUGH LESS THAN WHAT IS UNDOUBTEDLY DESIRED  
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BY THE SOME 1,500 SCIENTISTS AND MANAGERS WHO CONTRIBUTED PAPERS TO THE NATIONAL COMMITTEE ON SCIENCE AND TECHNOLOGY STUDY LEADING TO THIS PLAN DOCUMENT, THE FUNDING RECOMMENDED SHOWS AN INCREASED EMPHASIS ON APPLIED RESEARCH, DEVELOPMENT, AND DESIGN. WHAT WILL HAPPEN TO THE FUNDING IN THE COURSE OF THE REVIEW OF THE FIFTH PLAN NOW GOING ON (REF E) IS FAR FROM CLEAR. HOWEVER, ON 22 SEPTEMBER DOST SECRETARY RAMACHANDRAN TOLD SCIATT HE EXPECTED MODIFICATIONS IN THE PLAN DUE TO THE PETROLEUM CRISIS, INCLUDING A HEAVY EMPHASIS ON COAL UTILIZATION AND THAT THE COMFIRMED SCIENCE AND TECHNOLOGY PLAN WILL BE READY IN A FEW WEEKS.  
SCHNEIDER

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